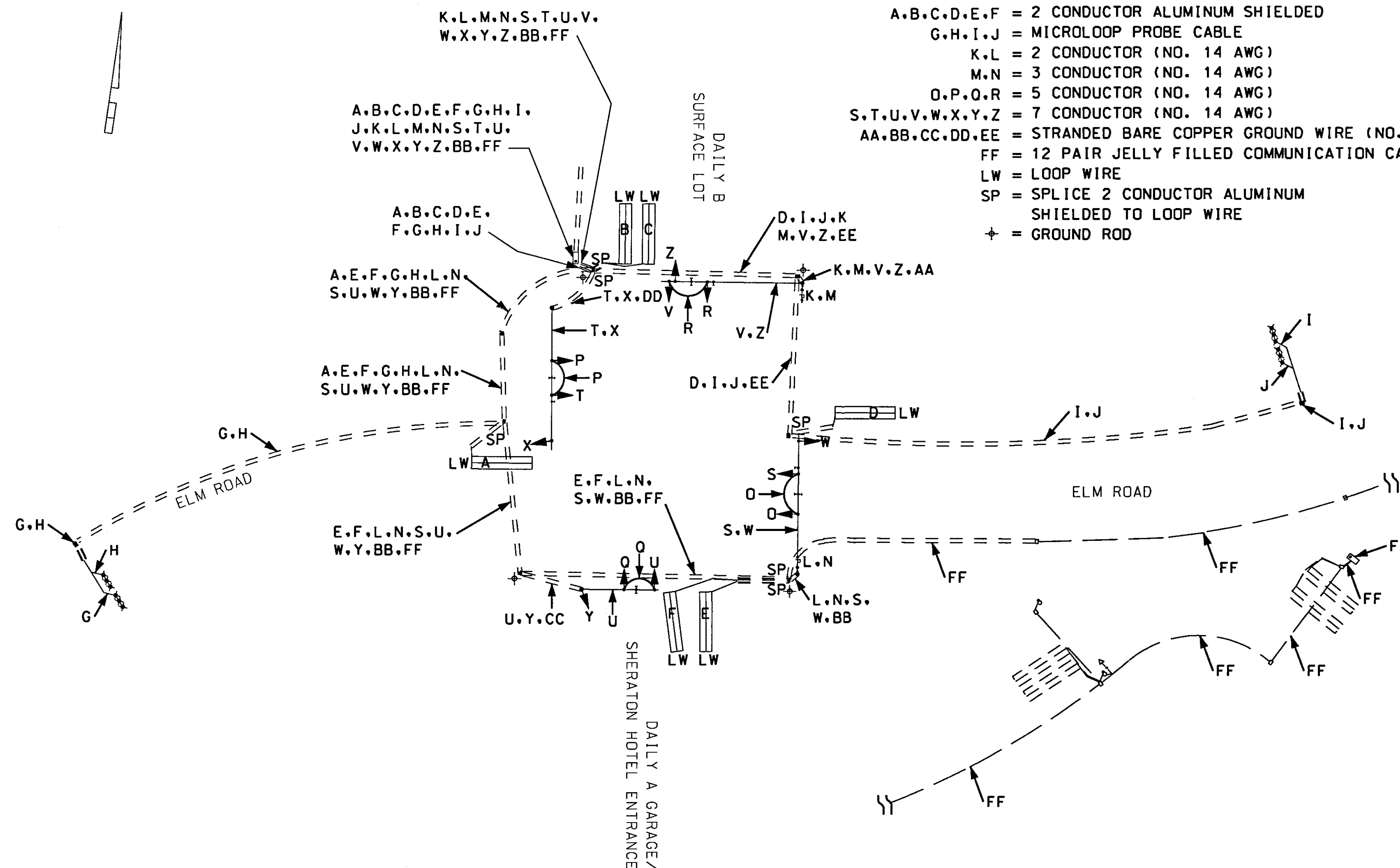


THIS PROJECT INVOLVES THE INSTALLATION OF A NEW SIGNAL AT THE INTERSECTION OF ELM ROAD AND DAILY PARKING/SHERATON HOTEL ENTRANCE. IT IS ASSUMED ELM ROAD RUNS EAST-WEST. THIS SIGNAL WILL OPERATE IN A NEMA 6-PHASE OPERATION.

PHASE 1 & 5		R		R	R	R	R	R	R	R	R		DW	DW						
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5												R	R	R	R	R	DW	DW	
PHASE 1 & 6		G		G	R	R	R	R	R	R	R	R	R	DW	DW					
1 CHANGE		G		G	G	R	R	R	R	R	R	R	R	DW	DW					
PHASE 2 & 5	R	R	R		G		G	R	R	R	R	R		DW	DW					
5 CHANGE	R	R	R		G		G	R	R	R	R	R	R	DW	DW					
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	DW	DW					
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	G	R	R	R	R	R	DW	DW					
PHASE 4 & 8	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW					
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW					
ALTERNATE PHASE 8	R	R	R	R	R	R	G	G	G	G	G	G	G	W	W					
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	G	FL/DW	FL/DW					
ALTERNATE CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW					
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK					


A.B.C.D.E.F = 2 CONDUCTOR ALUMINUM SHIELDED  
G.H.I.J = MICROLOOP PROBE CABLE  
K.L = 2 CONDUCTOR (NO. 14 AWG)  
M.N = 3 CONDUCTOR (NO. 14 AWG)  
O.P.Q.R = 5 CONDUCTOR (NO. 14 AWG)  
S.T.U.V.W.X.Y.Z = 7 CONDUCTOR (NO. 14 AWG)  
AA.BB.CC.DD.EE = STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)  
FF = 12 PAIR JELLY FILLED COMMUNICATION CABLE  
LW = LOOP WIRE  
SP = SPLICE 2 CONDUCTOR ALUMINUM  
SHIELDED TO LOOP WIRE  
⊕ = GROUND ROD



CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
871202	INSTALL A EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A NEMA SIZE 6 BASE MOUNTED TRAFFIC SIGNAL CABINET	EA	1
900000	DETECTOR RACK POWER SUPPLY	EA	1
900000	4 CHANNEL DETECTOR AMPLIFIER	EA	3
900000	CABINET W/TELEMETRY (SYSTEM CAB). SIZE 6	EA	1
900000	CONTROLLER ASC II W/TELEMETRY	EA	1

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
800000	FURNISH AND INSTALL 27' STEEL POLE WITH 38' MAST ARM, PAINTED BLACK	EA	1
800000	FURNISH AND INSTALL 27' STEEL POLE WITH 70' MAST ARM, PAINTED BLACK	EA	3
800000	CUT, CLEAN, GALVANIZE AND CAP SIGNAL STRUCTURE	EA	4
870160	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	75
800000	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT	EA	1
801004	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	CY	16.5
900000	FURNISH SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN	SF	54.5
805011	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT GALVANIZED SLEEVE	LF	100
800000	FURNISH AND INSTALL 4" SCHEDULE 80, RIGID PVC CONDUIT - BORED	LF	475
800000	FURNISH AND INSTALL 4" SCHEDULE 80, RIGID PVC CONDUIT - TRENCHED	LF	865
805160	FURNISH AND INSTALL 1" LIQUID TIGHT, FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	LF	33
800000	MICROLOOP TRIPLE PROBE SET WITH 500' LEAD-IN	EA	2
800000	MICROLOOP TRIPLE PROBE SET WITH 1000' LEAD-IN	EA	2
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	9
813015	INSTALL OVERHEAD SIGNS	SF	54.5
822002	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)	LF	1100
802501	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	680
837001	FURNISH AND INSTALL GROUND ROD -3/4" DIAMETER BY 10' LENGTH	EA	4
800000	FURNISH AND INSTALL 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION, BLACK FACE, MAST ARM MOUNT	EA	6
800000	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION, BLACK FACE, MAST ARM MOUNT	EA	40
800000	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	EA	4
861104	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	LF	1150
861105	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	535
861106	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	550
861107	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	85
861108	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	2340
862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	LF	3075
862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	780
800000	FURNISH AND INSTALL PUSHBUTTON AND SIGN	EA	2
500000	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	95

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY

REVISIONS        		APPROVALS  TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION   ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION   CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION   DIRECTOR, TRAFFIC & SAFETY		<div style="text-align: center;">  <b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b>  <i>Office of Traffic &amp; Safety</i>  <b>TRAFFIC ENGINEERING DESIGN DIVISION</b>  <b>SIGNAL PLAN</b>  <b>ELM ROAD AND DAILY PARKING/SHERATON HOTEL ENTRANCE</b> </div>			
DRAWN BY: <b>K. PERMISOHN</b> CHECKED BY: <b>D. GERHARDT</b> SCALE: <b>NOT TO SCALE</b> DATE: <b>9-03-02</b>		F.A.P. NO. _____ S.H.A. NO. <b>BW433M83</b> COUNTY: <b>ANNE ARUNDEL</b> LOG. MILE: _____		TS NO. _____ T.I.M.S. NO. _____ SHEET NO. _____ OF _____			